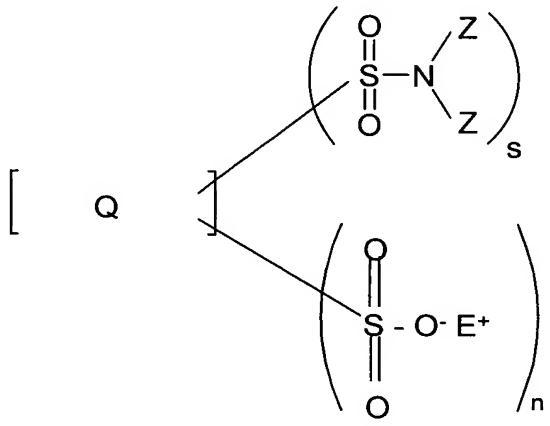
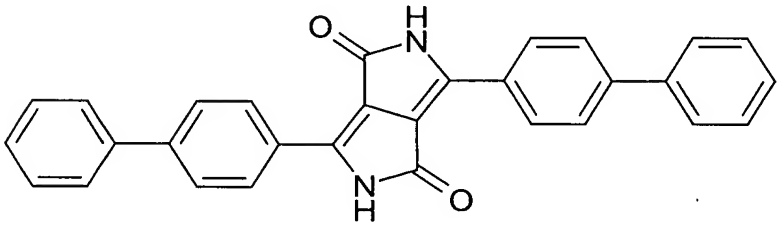
Amendments to the Claims

1) (Currently Amended) A pigment dispersant of the formula (I)



(I)

in which Q is a radical of the diketopyrrolopyrrole compound of the formula (Ia)



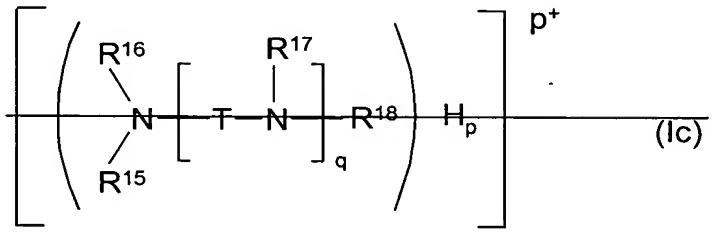
(Ia)

s is a number from 0.1 to 4.0,

n is ~~a number from 0 to~~ 2 - s,

E^+ is H^+ or the equivalent M^{m+}/m of a metal cation M^{m+} from main groups 1 to 5 or transition groups 1 or 2 or 4 to 8 of the periodic system of the chemical elements, m being 1, 2 or 3, an ammonium ion $N^+R^9R^{10}R^{11}R^{12}$, where the substituents R^9, R^{10}, R^{11} and R^{12} independently of one another are each a hydrogen atom, C_1-C_{30}-alkyl, C_2-C_{30}-alkenyl, C_5-C_{30}-cycloalkyl, phenyl, (C_1-C_8)-alkyl-phenyl, (C_1-C_4)-alkylene-phenyl, or a (poly)alkyleneoxy group of the formula -[$CH(R^{80})$-$CH(R^{80})$-O]$_k$-H, in

which k is a number from 1 to 30 and the two radicals R^{80} independently of one another are hydrogen, C_1-C_4-alkyl or, if k is > 1, a combination thereof;
and in which alkyl, alkenyl, cycloalkyl, phenyl or alkylphenyl R^9, R^{10}, R^{11}, and/or R^{12} may be substituted by amino, hydroxyl and/or carboxyl;
or where the substituents R^9 and R^{10}, together with the quaternary nitrogen atom, are able to form a five- to seven-membered saturated ring system containing, if desired, further heteroatoms from the group consisting of O, S and N,
or where the substituents R^9, R^{10} and R^{11}, together with the quaternary nitrogen atom, are able to form a five- to seven-membered aromatic ring system, containing, if desired, further heteroatoms from the group consisting of O, S and N, and to which additional rings may be fused if desired,
~~or in which E^* defines an ammonium ion of the formula (Ic)~~



(Ic)

~~in which~~
~~R^{15}, R^{16}, R^{17} and R^{18} independently of one another are hydrogen or a (poly)alkyleneoxy group of the formula $-[CH(R^{80})-CH(R^{80})O]_k-H$, in which k is a number from 1 to 30 and the two radicals R^{80} independently of one another are hydrogen, C_1-C_4-alkyl or, if k is > 1, a combination thereof;~~
~~q is a number from 1 to 10,~~
~~p is a number from 1 to 5, where p is $\leq q+1$;~~
~~T is a branched or unbranched C_2-C_6-alkylene radical; or in which T, if q is > 1, may also be a combination of branched or unbranched C_2-C_6-alkylene radicals;~~

and in which the two radicals Z are identical or different and Z has the definition Z^1 or Z^4, where

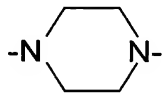
Z^1 is a radical of the formula (Ib)

$$-[X-Y]_qR^3 \qquad (Ib)$$

in which

X is a C_2-C_6-alkylene radical, a C_5-C_7-cycloalkylene radical, or a combination of these radicals, it being possible for these radicals to be substituted by from 1 to 4 C_1-C_4-alkyl radicals, hydroxyl radicals, (C_1-C_4)-hydroxyalkyl radicals and/or by 1 or 2 further C_5-C_7-cycloalkyl radicals, or in which X, if q is > 1, may also be a combination of said definitions;

Y is a -O-,



or $-NR^2$ - group,

or in which Y, if q is > 1, may also be a combination of said definitions;

q is a number from 1 to 10;

R^2 and R^3 independently of one another are a hydrogen atom, a substituted or unsubstituted, or partly fluorinated or perfluorinated, branched or unbranched (C_1-C_{20})-alkyl group, a substituted or unsubstituted C_5-C_7-cycloalkyl group or a substituted or unsubstituted, or partly fluorinated or perfluorinated (C_2-C_{20})-alkenyl group, it being possible for the substituents to be hydroxyl, phenyl, cyano, chloro, bromo, amino, C_2-C_4-acyl or C_1-C_4-alkoxy, or

R^2 and R^3, together with the nitrogen atom, form a saturated, unsaturated or aromatic heterocyclic 5- to 7-membered ring containing, if desired, 1 or 2 further nitrogen, oxygen or sulfur atoms or carbonyl groups in the ring, being substituted if desired by 1, 2 or 3 of the radicals OH, phenyl, CN, Cl, Br, C_1-C_4-alkyl, C_1-C_4-alkoxy, C_2-C_4-acyl and carbamoyl, and carrying, if desired, 1 or 2 benzo-fused saturated, unsaturated or aromatic, carbocyclic or heterocyclic rings;

and where

Z^4 is hydrogen, hydroxyl, amino, phenyl, (C_1-C_4)-alkylene-phenyl, C_5-C_7-cycloalkyl or C_1-C_{20}-alkyl, it being possible for the phenyl ring, the (C_1-C_4)-alkylene-phenyl group and the alkyl group to be substituted by one or more substituents from the group consisting of Cl, Br, CN, NH_2, OH, C_6H_5, mono-, di- or tri-C_1-C_4-alkoxy-substituted C_6H_5, carbamoyl, C_2-C_4-acyl and C_1-C_4-alkoxy, and it being possible for the phenyl ring and the (C_1-C_4)-alkylene-phenyl group to be substituted by NR^2R^3, or the alkyl group is perfluorinated or partly fluorinated.

2) (Currently Amended) The pigment dispersant as claimed in claim 1, wherein s is a number from 0.2 to 3.0~~, preferably from 0.5 to 2.5;~~ and n is a number from 0 to 0.5~~, preferably from 0 to 0.2~~.

3) (Currently Amended) The pigment dispersant as claimed in claim 1~~ or 2~~, wherein

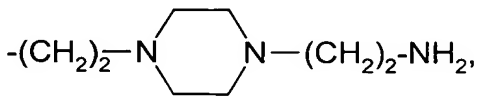
~~R^2 and R^3 independently of one another are a hydrogen atom, a C_1-C_6-alkyl group or a C_1-C_6-alkyl group substituted by 1 or 2 substituents from the group consisting of hydroxyl, acetyl, methoxy, ethoxy, chloro and bromo, or~~

R^2 and R^3, together with the adjacent nitrogen atom, form an imidazolyl, piperidinyl, morpholinyl, pipecolinyl, pyrrolyl, pyrrolidinyl, pyrazolyl, pyrrolidinonyl, indolyl or piperazinyl ring.

4) (Currently Amended) The pigment dispersant as claimed in ~~one or more of claims 1 to 3~~claim 1, wherein Z^1 has the definition

$-[(CH_2)_3-NH]_2-H$, $-(CH_2-CH_2-NH)_2H$,

$-(CH_2)_3-NH-(CH_2)_2-NH-(CH_2)_3-NH_2$,

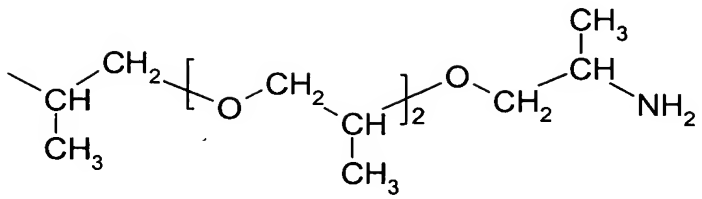


$-(CH_2)_3-N(CH_3)-(CH_2)_3-NH_2$, $-(CH_2)_3-O-(CH_2)_2-O-(CH_2)_3-NH_2$,

$-(CH_2)_3-O-(CH_2)_3-O-(CH_2)_3-NH_2$, $-(CH_2)_2-NH-(CH_2)_3-NH_2$, $-(CH_2)_3-NH-(CH_2)_2-NH_2$,

$-(CH_2-CH_2-NH)_3-H$, $-(CH_2-CH_2-NH)_4-H$, $-(CH_2-CH_2-NH)_5-H$,

$-(CH_2)_3-O-(CH_2)_2-O-(CH_2)_2-O-(CH_2)_3-NH_2$, $-(CH_2)_3-O-(CH_2)_4-O-(CH_2)_3-NH_2$,



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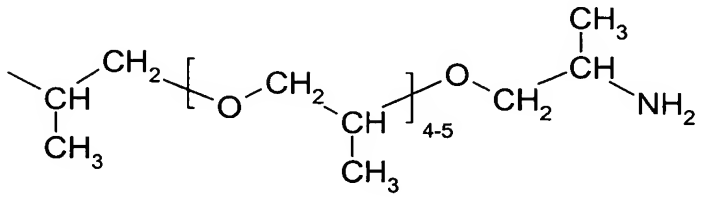

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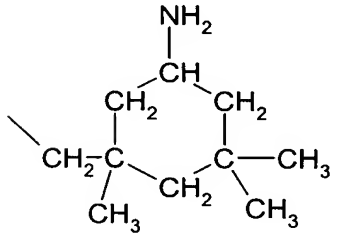
$-(CH_2)_2-OH$, $-(CH_2)_3-OH$, $-CH_2-CH(CH_3)-OH$, $-CH(CH_2-CH_3)CH_2-OH$, $-CH(CH_2OH)_2$, $-(CH_2)_2-O-(CH_2)_2-OH$ or $-(CH_2)_3-O-(CH_2)_2-O-(CH_2)_2-OH$; $-(CH_2)_2-NH_2$, $-(CH_2)_3-NH_2$, $-CH_2-CH(CH_3)-NH_2$, $-CH_2-C(CH_3)_2-CH_2-NH_2$,



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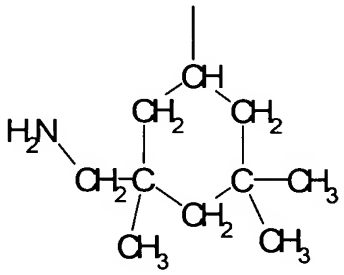


,

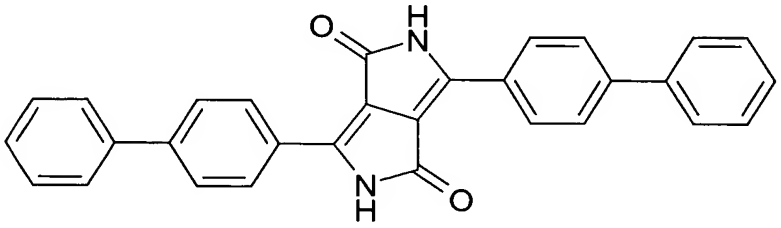
$-(CH_2)_2-NH-CH_3$,

$-(CH_2)_2-N(CH_3)_2$, $-(CH_2)_2-NH-CH_2-CH_3$, $-(CH_2)_2-N(CH_2-CH_3)_2$, $-(CH_2)_3-NH-CH_3$, $-(CH_2)_3-N(CH_3)_2$, $-(CH_2)_3-NH-CH_2-CH_3$ or $-(CH_2)_3-N(CH_2-CH_3)_2$.

5) (Currently Amended) The pigment dispersant as claimed ~~in one or more of claims 1 to 4~~claim 1, wherein Z^4 has the definition hydrogen, amino, phenyl, benzyl, NR^2R^3-substituted phenyl or benzyl, C_1-C_6-alkyl, or a C_2-C_6-alkyl, phenyl or benzyl substituted by 1 or 2 substituents from the group consisting of hydroxyl, acetyl, methoxy and ethoxy.

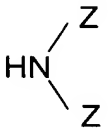
6) (Currently Amended) The pigment dispersant as claimed in ~~one or more of claims 1 to 5~~claim 1, wherein X is a C_2-C_4-alkylene radical or cyclohexylene.

7) (Currently Amended) A process for preparing a pigment dispersant as claimed in ~~one or more of claims 1 to 6, which comprises~~ claim 1 comprising the steps of chlorosulfonating a diketopyrrolopyrrole compound of the formula (Ia)



(Ia)

and reacting the resultant sulfochloride with an amine of the formula (V)



(V)

8) (Currently Amended) A pigment preparation comprising

a) at least one organic base pigment, and

b) at least one pigment dispersant of the formula (I) as claimed in ~~one or more of claims 1 to 6~~claim 1.

9 - 16 (Cancelled)